09/845,342

FILE 'HOME' ENTERED AT 10:46:48 ON 17 NOV 2004

=> file biosis medline caplus wpids uspatfull
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*** YOU HAVE NEW MAIL ***

=> s cycloaddition? (10a) fluor?
L1 438 CYCLOADDITION? (10A) FLUOR?

=> s l1 and sloid support (15a) cycloaddition?
L2 0 L1 AND SLOID SUPPORT (15A) CYCLOADDITION?

=> s l1 solid support (15a) cycloaddition?
MISSING OPERATOR L1 SOLID
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l1 and solid support (15a) cycloaddition?
L3 0 L1 AND SOLID SUPPORT (15A) CYCLOADDITION?

=> s l1 and solid support
L4 1 L1 AND SOLID SUPPORT

=> d l4 bib abs

L4 ANSWER 1 OF 1 USPATFULL on STN
AN 2004:123010 USPATFULL
TI Bioconjugation of macromolecules
IN Pieken, Wolfgang, Boulder, CO, United States
Hill, Ken, Nederland, CO, United States
Eaton, Bruce, Boulder, CO, United States
McGee, Danny, San Mateo, CA, United States
Vagle, Kurt, Longmont, CO, United States
Gold, Larry, Boulder, CO, United States
Stephens, Andrew, Boulder, CO, United States
PA Proligo, LLC, Boulder, CO, United States (U.S. corporation)
PI US 6737236 B1 20040518
WO 9830575 19980716
AI US 1999-341337 19990708 (9)
WO 1998-US649 19980108
RLI Continuation-in-part of Ser. No. US 1998-51449, filed on 6 Apr 1998, now patented, Pat. No. US 6262251, issued on 17 Jul 2001

Continuation-in-part of Ser. No. US 1997-780517, filed on 8 Jan 1997, now patented, Pat. No. US 5874532, issued on 23 Feb 1999

PRAI US 1997-34651P 19970108 (60)
US 1997-58206P 19970908 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Riley, Jezia

LREP Swanson &Bratschun, L.L.C.

CLMN Number of Claims: 19

ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 1793

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention discloses a novel method for conjugating macromolecules to other molecular entities. Specifically, this invention discloses a method for conjugating or derivatizing macromolecules, such as oligonucleotides and proteins, using cycloaddition reactions, such as the Diels-Alder reaction or 1,3-dipolar cycloadditions. Included in the invention are the novel bioconjugated macromolecules that can be prepared according to the method of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

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=> s cycloaddition? (20a) chem?
L5        1195 CYCLOADDITION? (20A) CHEM?

=> s l5 and solid support
L6          59 L5 AND SOLID SUPPORT

=> s l6 and solid support (20a) cycloaddition?
L7           8 L6 AND SOLID SUPPORT (20A) CYCLOADDITION?

=> s l7 not l4
L8           8 L7 NOT L4

=> d l8 bib abs 1-8

L8   ANSWER 1 OF 8  WPIDS  COPYRIGHT 2004 THE THOMSON CORP on STN
AN   2001-158372 [16]   WPIDS
DNC  C2001-046918
TI   Methods of making arrays of polymeric compounds including
     polydeoxyribonucleotides useful e.g. in gene expression analysis, drug
     screening, nucleic acid sequencing and mutation analysis.
DC   B04 D16
IN   PERBOST, M G M
PA   (AGIL-N) AGILENT TECHNOLOGIES INC
CYC  1
PI   US 6171797      B1 20010109 (200116)*      11
ADT  US 6171797 B1 US 1999-421952 19991020
PRAI US 1999-421952       19991020
AN   2001-158372 [16]   WPIDS
AB   US   6171797 B UPAB: 20010323
     NOVELTY - Making an array (M1) of polymeric compounds covalently bonded to
     a solid support comprises contacting a surface of the
     support (having a cycloaddition reactive group and a contact
     angle of 20 deg. to 100 deg. ) with the polymeric compounds under
     conditions which allow the polymers to bond to the surface by the
     cycloaddition reaction.
          DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:
          (i) producing an array (M2) of nucleic acids covalently bonded to the
     surface of a solid support comprising contacting a
     surface of the support (having a cycloaddition reactive group
     and a contact angle of 20 deg. to 100 deg. ) with the nucleic acid under
     conditions which allow the nucleic acids to bond to the surface by a
     Diels-Alder reaction;
          (ii) producing an array (M3) of polydeoxyribonucleotides covalently
     bonded to the surface of a solid support comprising
     contacting a surface of the support (having a cycloaddition
     reactive group and a contact angle of 20 deg. to 100 deg. ) with the
     polydeoxyribonucleotides under conditions which allow the
     polydeoxyribonucleotides to bond to the surface by a Diels-Alder reaction
     of a diene terminus of the nucleotide with a dienophile on the surface;
          (iii) making a polymeric array (M4) of spots with a diameter of 10 to
     1000 mu m containing polymers on the surface of a solid
     support comprising depositing 1nl to 1pl of a composition
     containing the polymers so that they can react by a cycloaddition
     reaction;
          (iv) making an array (M5) of spots with a diameter of 10 to 1000 mu m
     containing nucleic acids on the surface of a solid
     support comprising depositing 1nl to 1pl of a composition
     containing the nucleic acids so that they can react by a Diels-Alder
     reaction;
          (v) making an array (M6) of spots with a diameter of 10 to 1000 mu m
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containing polydeoxyribonucleotides on the surface of a **solid support** comprising depositing 1nl to 1pl of a composition containing the polydeoxyribonucleotides so that they can react by a Diels-Alder reaction.

USE - The arrays produced are useful e.g. in gene expression analysis, drug screening, nucleic acid sequencing and mutation analysis.

ADVANTAGE - The invention provides a new protocol for producing nucleic acid arrays.

Dwg.0/2

L8 ANSWER 2 OF 8 USPATFULL on STN
AN 2004:77359 USPATFULL
TI Dihydropyrancarboxamides and uses thereof
IN Schreiber, Stuart L., Boston, MA, UNITED STATES
Stavenger, Robert A., Blue Bell, PA, UNITED STATES
Mitchison, Timothy J., Brookline, MA, UNITED STATES
Maliga, Zoltan, East Brunswick, NJ, UNITED STATES
PI US 2004059138 A1 20040325
AI US 2003-649532 A1 20030827 (10)
PRAI US 2002-406140P 20020827 (60)
DT Utility
FS APPLICATION
LREP Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, MA, 02109
CLMN Number of Claims: 39
ECL Exemplary Claim: 1
DRWN 40 Drawing Page(s)
LN.CNT 4504
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel dihydropyrancarboxamide compounds of formula (I): ##STR1##

and collections of these compounds, and provides methods for the synthesis of these compounds; wherein R.sup.1-R.sup.6 are as defined herein. Additionally, the present invention provides pharmaceutical compositions and methods for treating disorders such as proliferative diseases, and cancer, to name a few.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 3 OF 8 USPATFULL on STN
AN 2003:277324 USPATFULL
TI Methods for the integrated synthesis and purification of oligonucleotides
IN Pieken, Wolfgang, Boulder, CO, UNITED STATES
Wolter, Andreas, Hamburg, GERMANY, FEDERAL REPUBLIC OF
Leuck, Michael, Boulder, CO, UNITED STATES
PA PROLIGO, LLC, Boulder, CO (U.S. corporation)
PI US 2003195351 A1 20031016
AI US 2003-349195 A1 20030122 (10)
PRAI US 2002-351991P 20020123 (60)
DT Utility
FS APPLICATION
LREP SWANSON & BRATSCHUN L.L.C., 1745 SHEA CENTER DRIVE, SUITE 330, HIGHLANDS RANCH, CO, 80129
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1365
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention discloses novel methods for the integrated synthesis and purification of oligonucleotides. The methods employ novel

capping reagents carrying two functional groups. The first functional group provides for a smooth and efficient capping process and incorporates the second functional group into contaminant oligonucleotides during solid phase oligonucleotide synthesis. The second functional group functions as a chemical purification handle in the trapping of truncated oligonucleotides (failure sequences) on a **solid support**. The trapping process creates covalent bonds between the **solid support** and the truncated oligonucleotides and therefore allows the removal of the truncated sequences from the desired full length oligonucleotide product by filtration. The **chemical** trapping process employed in this invention is based on **cycloaddition** reactions, particularly Diels-Alder reactions between the truncated oligonucleotides and the trapping agent. The invention includes novel **solid support** compositions that carry covalently attached Diels-Alder reaction components.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 8 USPATFULL on STN
AN 2003:140424 USPATFULL
TI Phosphoramidites for coupling oligonucleotides to [2 + 2] photoreactive groups
IN Brush, Charles K., Whitefish Bay, WI, UNITED STATES
Elghanian, Robert, Skokie, IL, UNITED STATES
Xu, Yanzheng, Redwood Shore, CA, UNITED STATES
PA Motorola, Inc. (U.S. corporation)
PI US 2003096265 A1 20030522
AI US 2002-185279 A1 20020628 (10)
RLI Continuation-in-part of Ser. No. US 2001-928250, filed on 9 Aug 2001, PENDING Continuation-in-part of Ser. No. US 1999-344620, filed on 25 Jun 1999, GRANTED, Pat. No. US 6372813
DT Utility
FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. Box 10395, Chicago, IL, 60610
CLMN Number of Claims: 42
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 1047
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Photoreactive phosphoramidites useful for attaching photoreactive sites to nucleic acids and oligonucleotides are synthesized. The resultant nucleic acid or oligonucleotide probes incorporating the photoreactive sites are then attached to a polymer-coated support by a [2+2] cycloaddition to form a microarray.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 8 USPATFULL on STN
AN 2003:113573 USPATFULL
TI Methods and compositions for attachment of biomolecules to solid supports, hydrogels, and hydrogel arrays
IN Johnson, Travis, Chandler, AZ, UNITED STATES
McGowen, John, Crystal Lake, IL, UNITED STATES
Beuhler, Allyson, Downers Grove, IL, UNITED STATES
Brush, Charles Kimball, Whitefish Bay, WI, UNITED STATES
Lajos, Robert Emil, Crystal Lake, IL, UNITED STATES
PA Motorola Inc. (U.S. corporation)
PI US 2003078314 A1 20030424
US 6686161 B2 20040203
AI US 2001-976986 A1 20011011 (9)
RLI Division of Ser. No. US 1999-344620, filed on 25 Jun 1999, GRANTED, Pat.

No. US 6372813
DT Utility
FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610
CLMN Number of Claims: 34
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 1508
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides solid supports (e.g., glass) and polymer hydrogels (particularly polymer hydrogel arrays present on a **solid support**) comprising one or more reactive sites for the attachment of biomolecules, as well as biomolecules comprising one or more reactive sites for attachment to solid supports and polymer hydrogels. The invention further provides novel compositions and methods for the preparation of biomolecules, solid supports, and polymer hydrogels comprising reactive sites. The invention also provides for preparation of crosslinked solid supports, polymer hydrogels, and hydrogel arrays, wherein one or more biomolecules is attached by means of the reactive sites in a photocycloaddition reaction. Advantageously, according to the invention, crosslinking of the hydrogel and attachment of biomolecules can be done in a single step.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 8 USPATFULL on STN
AN 2002:214351 USPATFULL
TI Hydrogels and hydrogel arrays made from reactive prepolymers crosslinked by [2 + 2] cycloaddition
IN Beuhler, Allyson, Downers Grove, IL, UNITED STATES
McGowen, John, Crystal Lake, IL, UNITED STATES
PA Motorola, Inc. (U.S. corporation)
PI US 2002115740 A1 20020822
AI US 2002-131426 A1 20020423 (10)
RLI Continuation-in-part of Ser. No. US 1999-344217, filed on 25 Jun 1999, GRANTED, Pat. No. US 6391937
PRAI US 1998-109821P 19981125 (60)
DT Utility
FS APPLICATION
LREP Jonathan Blanchard, c/o Brinks Hofer Gilson & Lione, P.O. Box 10395, Chicago, IL, 60610
CLMN Number of Claims: 80
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 936
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Reactive prepolymers incorporating [2+2] photoreactive sites are synthesized. Upon exposure to UV light, these prepolymers undergo [2+2] cycloaddition to crosslink. When crosslinked, the reactive prepolymers form a hydrogel. Selective hydrogel formation is provided through selective exposure of the reactive prepolymer to UV light. Supports and other molecules may be attached or incorporated into the hydrogel through [2+2] cycloaddition with uncrosslinked [2+2] photoreactive sites present in the hydrogel.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 8 USPATFULL on STN
AN 2002:81544 USPATFULL
TI Methods and compositions for attachment of biomolecules to solid supports, hydrogels, and hydrogel arrays
IN Johnson, Travis, Chandler, AZ, United States

McGowen, John, Crystal Lake, IL, United States
Beuhler, Allyson, Downers Grove, IL, United States
Brush, Charles Kimball, Whitefish Bay, WI, United States
Lajos, Robert Emil, Crystal Lake, IL, United States
PA Motorola, Schaumburg, IL, United States (U.S. corporation)
PI US 6372813 B1 20020416
AI US 1999-344620 19990625 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Berman, Susan W.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1431
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides solid supports (e.g., glass) and polymer hydrogels (particularly polymer hydrogel arrays present on a **solid support**) comprising one or more reactive sites for the attachment of biomolecules, as well as biomolecules comprising one or more reactive sites for attachment to solid supports and polymer hydrogels. The invention further provides novel compositions and methods for the preparation of biomolecules, solid supports, and polymer hydrogels comprising reactive sites. The invention also provides for preparation of crosslinked solid supports, polymer hydrogels, and hydrogel arrays, wherein one or more biomolecules is attached by means of the reactive sites in a photocycloaddition reaction. Advantageously, according to the invention, crosslinking of the hydrogel and attachment of biomolecules can be done in a single step.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 8 USPATFULL on STN
AN 2000:54248 USPATFULL
TI Arene-transition metal linkers for solid phase synthesis
IN Gallop, Mark A., Los Altos, CA, United States
PA Glaxo Wellcome Inc., Research Triangle Park, NC, United States (U.S. corporation)
PI US 6057465 20000502
AI US 1997-861954 19970522 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Nazario-Gonzalez, Porfirio
LREP Kezer, William B., Stevens, Lauren L.
CLMN Number of Claims: 15
ECL Exemplary Claim: 1,5,13
DRWN 9 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 776
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for the solid phase synthesis of organic compounds are provided. The compositions are solid supports having an attached traceless linker precursor and are represented by the formula: ##STR1## In this formula, S.sup.0 is a **solid support** ; B is a connecting group; M is a transition metal, for example ruthenium, chromium, iron, molybdenum and manganese; each L is independently a transition metal ligand; the letter n represents an integer of from 1 to 4, such that M has a sufficient number of ligands to fill the available valences; and X.sup.- represents an anion which is typically a non-nucleophilic anion.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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d his

     (FILE 'HOME' ENTERED AT 10:46:48 ON 17 NOV 2004)

     FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 10:47:40 ON
     17 NOV 2004
L1          438 S CYCLOADDITION? (10A) FLUOR?
L2            0 S L1 AND SLOID SUPPORT (15A) CYCLOADDITION?
L3            0 S L1 AND SOLID SUPPORT (15A) CYCLOADDITION?
L4            1 S L1 AND SOLID SUPPORT
L5         1195 S CYCLOADDITION? (20A) CHEM?
L6           59 S L5 AND SOLID SUPPORT
L7            8 S L6 AND SOLID SUPPORT (20A) CYCLOADDITION?
L8            8 S L7 NOT L4

=> s cycloaddition? (20a) molecule?
L9          198 CYCLOADDITION? (20A) MOLECULE?

=> s l9 and solid support?
L10          37 L9 AND SOLID SUPPORT?

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11          37 DUP REM L10 (0 DUPLICATES REMOVED)

=> s l11 and solid support (20a) cycloaddition/
'LOADDITION/' IS NOT A VALID FIELD CODE
For a list of field codes for the current file, enter "HELP SFIELDS"
at an arrow prompt (=>).

=> s l11 and solid support? (20a) cycloaddition?
L12           9 L11 AND SOLID SUPPORT? (20A) CYCLOADDITION?

=> s l9 not l4
L13         197 L9 NOT L4

=> s l12 not l4
L14           9 L12 NOT L4

=> s l14 not l8
L15           4 L14 NOT L8

=> d l15 bib abs 1-4

L15  ANSWER 1 OF 4  USPATFULL on STN
AN      2004:152463  USPATFULL
TI      Method for solution phase synthesis of oligonucleotides
IN      Pieken, Wolfgang, Boulder, CO, UNITED STATES
        McGee, Danny, Redwood City, CA, UNITED STATES
        Settle, Alecia, Superior, CO, UNITED STATES
        Zhai, Yansheng, Palo Alto, CA, UNITED STATES
        Huang, Jianping, Carmel, IN, UNITED STATES
PA      Proligo LLC (U.S. corporation)
PI      US 2004116685       A1   20040617
AI      US 2001-907125      A1   20010717 (9)
RLI     Division of Ser. No. US 1998-51449, filed on 6 Apr 1998, GRANTED, Pat.
        No. US 6262251 A 371 of International Ser. No. WO 1996-US16668, filed on
        17 Oct 1996, UNKNOWN
PRAI    US 1995-5619P        19951019 (60)
DT      Utility
FS      APPLICATION
LREP    Swanson & Bratschun, L.L.C., Suite 330, 1745 Shea Center Drive,
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Highlands Ranch, CO, 80129
CLMN Number of Claims: 82
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 2682
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention discloses an improved method for the sequential solution phase synthesis of oligonucleotides. The method lends itself to automation and is ideally suited for large scale manufacture of oligonucleotides with high efficiency.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 2 OF 4 USPATFULL on STN
AN 2001:112515 USPATFULL
TI Method for solution phase synthesis of oligonucleotides
IN Pieken, Wolfgang, Boulder, CO, United States
McGee, Danny, San Mateo, CA, United States
Settle, Alecia, Superior, CO, United States
Zhai, Yansheng, Palo Alto, CA, United States
Huang, Jianping, Lafayette, CO, United States
PA Proligo LLC, Boulder, CO, United States (U.S. corporation)
PI US 6262251 B1 20010717
WO 9714706 19970424
AI US 1998-51449 19980406 (9)
WO 1996-US16668 19961017
19980406 PCT 371 date
19980406 PCT 102(e) date
PRAI US 1995-5619P 19951019 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Wilson, James O.; Assistant Examiner: Owens, Howard
LREP Swanson & Bratschun LLC
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 2746
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention discloses an improved method for the sequential solution phase synthesis of oligonucleotides. The method lends itself to automation and is ideally suited for large scale manufacture of oligonucleotides with high efficiency.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 3 OF 4 USPATFULL on STN
AN 1999:163821 USPATFULL
TI Method for solution phase synthesis of oligonucleotides and peptides
IN Pieken, Wolfgang, Boulder, CO, United States
Gold, Larry, Boulder, CO, United States
PA Proligo LLC, Boulder, CO, United States (U.S. corporation)
PI US 6001966 19991214
AI US 1998-130232 19980806 (9)
RLI Continuation of Ser. No. US 1997-780517, filed on 8 Jan 1997, now patented, Pat. No. US 5874532 which is a continuation-in-part of Ser. No. WO 1996-US16668, filed on 17 Oct 1996
DT Utility
FS Granted
EXNAM Primary Examiner: Kunz, Gary L.
LREP Swanson & Bratschun LLC
CLMN Number of Claims: 14
ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 2662
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention discloses an improved method for the sequential solution phase synthesis of oligonucleotides and peptides. The method lends itself to automation and is ideally suited for large scale manufacture oligonucleotides with high efficiency.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L15 ANSWER 4 OF 4 USPATFULL on STN
AN 1999:24749 USPATFULL
TI Method for solution phase synthesis of oligonucleotides and peptides
IN Pieken, Wolfgang, Longmont, CO, United States
Gold, Larry, Boulder, CO, United States
PA NeXstar Pharmaceuticals, Inc., Boulder, CO, United States (U.S. corporation)
PI US 5874532 19990223
AI US 1997-780517 19970108 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Kunz, Gary L.
LREP Swanson & Bratschun LLC
CLMN Number of Claims: 11
ECL Exemplary Claim: 10
DRWN 10 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 2684
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention discloses an improved method for the sequential solution phase synthesis of oligonucleotides and peptides. The method lends itself to automation and is ideally suited for large scale manufacture oligonucleotides with high efficiency.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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